What is claimed is:

- 1. A substantially pure polypeptide comprising an amino acid sequence at least 70 % identical to the amino acid sequence of SEQ ID NO:1
- 2. The polypeptide of claim 1, wherein said polypeptide comprises an amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO: 1.
- 3. The polypeptide of claim 1, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 4. The polypeptide of claim 1, wherein said polypeptide comprises an amino acid sequence at least 70% identical to the amino acid sequence of SEQ ID NO: 2.
- 5. The polypeptide of claim 1, wherein said polypeptide comprises an amino acid sequence at least 70% identical to the amino acid/sequence of SEQ ID NO: 3.
- 6. The polypeptide of claim 1, wherein said polypeptide comprises an amino acid sequence at least 70% identical to the amino acid sequence of SEQ ID NO: 4.
- 7. The polypeptide of claim 1, wherein said polypeptide is an *Apis mellifera* bee venom protein.
 - 8. The polypeptide of claim 1, wherein said polypeptide is glycosylated.
- 9. The polypeptide of claim 1, wherein said polypeptide binds to a human IgE antibody.
- 10. The polypeptide of claim 1, wherein said polypeptide stimulates T-cell proliferation.
- 11. The polypeptide of claim 1, wherein said polypeptide binds to the monoclonal antibody 5E11 (Accession No.___).
 - 12. An antibody which binds to the polypeptide of claim 1.
 - 13. The antibody of claim 12, wherein said antibody is a monoclonal antibody.

30-70 amino acids in length.

| 14. | The antibody of claim 13, wherein said antibody binds to the same epitope to |
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| which the n | nonoclonal antibody produced by the hybridoma 5E11 (Accession No) |
| binds. | |
| 15. | The antibody of claim 14, wherein said antibody is the antibody produced by |
| the hybrido | ma 5E11 (Accession No). |
| 16. | A hybridoma producing an antibody which binds to the same epitope to which |
| the monocle | onal antibody produced by the 5E11 (Accession No) binds. |
| 17. | The hybridoma of claim 16, where in said hybridoma is hybridoma 5E11 (|
| Accession 1 | No). |
| 18. | A composition comprising polypeptide fragments of the Api m 6 protein, |
| wherein said | d polypeptide fragments are between 6-72 amino acids in length. |
| 19. | The composition of claim 18, wherein said polypeptide fragments are between |
| 20-100 ami | no acids in length. |
| 20. | The composition of claim 18, wherein said polypeptide fragments are between |

- 21. The composition of claim 18, wherein said polypeptide fragments are between 40-60 amino acids in length
- 22. The composition of claim 18, wherein at least one polypeptide in the composition has an amino acid sequence that overlaps by at least 3 amino acids with at least one other polypeptide in the composition
- 23. The composition of claim 18, wherein the polypeptide fragments of Api m 6 overlap by between 5 and 10 amino acids.
- 24. The composition of claim 18, wherein the composition comprises of a set of polypeptide fragments that map the total length of the Api m 6 protein.
- 25. A pharmaceutical composition comprising the polypeptide of claim 1 and a pharmaceutically acceptable carrier.
- 26. The pharmaceutical composition of claim 25, further comprising a second bee venom polypeptide.

- 27. The pharmaceutical composition of claim 26, wherein said second bee venom polypeptide is selected from the group comprising phospholipase A₂, hyaluronidase, allergen C, mellitin, adolapin, minimine, acid phosphatase, protease inhibitor, and glycosylated IgE-binding proteins, or analogs or derivatives thereof.
- 28. A method of modulating an immune response, said method comprising administering the polypeptide of claim 1 to a subject in need thereof in an amount sufficient to inhibit an immune reaction by the subject against said polypeptide.
- 29. The method of claim 25, further comprising administering a second bee venom polypeptide to said subject.
- 30. The method of claim 29, wherein the second bee venom polypeptide is phospholipase A₂, hyaluronidase, allergen C, mellitin, adolapin, minimine, acid phosphatase, protease inhibitor, and acid phosphatase, and glycosylated IgE-binding proteins, or analogs or derivatives thereof.
- 31. A method of identifying an individual at risk for bee venom hypersensitivity, the method comprising:

administering to said individual the polypeptide of claim 1; and

measuring an immune response raised against said polypeptide, wherein a detectable immune response indicates that said individual is at risk for bee venom hypersensitivity.

- 32. The method of claim 31, wherein said polypeptide is administered to said subject intradermally.
- 33. The method of claim 32 wherein said polypeptide is administered at a concentration of less than about 1µg/ml.
 - 34. A method of purifying the polypeptide of claim 1, the method comprising: providing a cell expressing the polypeptide of claim 1;

contacting said cell with an antibody which binds to polypeptide comprising an amino acid sequence at least 70% identical to the amino acid sequence of SEQ ID NO:1 to form a polypeptide-antibody/complex;

isolating said antibody-polypeptide complex; and

35. A kit comprising, in one or more containers, a substance selected from the group consisting of: an Api m 6 polypeptide, a overlapping polypeptide fragments of an Api m 6 polypeptide, an antibody against said Api m 6 polypeptide.

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